	Application No. Applicant(s)		
Notice of Allowability	10/776 252	10/776 253 IKEDA ET AL	
	10/776,253 Examiner	IKEDA ET AL. Art Unit	
	Ryan A. Jarrett	2125	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits (GHTS). This application is	n this application. If not included unication will be mailed in due co	urse. THIS
1. \boxtimes This communication is responsive to <u>amendment filed 9/16</u>	<u>6/05</u> .		
2. The allowed claim(s) is/are <u>1-21</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received.		
3. ☐ Copies of the certified copies of the priority does	• •		n from the
International Bureau (PCT Rule 17.2(a)).	dinonto have been receive	d in this hadonal stage applicatio	ii iioiii tii c
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NO r declaration is deficient.	TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•		
(b) including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			ack) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Not DLOGICAL MATERIAL.	te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. 🗆 Notice of Ir	formal Patent Application (PTO-1	152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview S	ummary (PTO-413),	132)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No. 8). 7. □ Examiner's	/Mail Date Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowa	ance
of Biological Material	9. ☐ Other		ance

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-21 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach or fairly suggest a computer-implemented method for generating NC data to machine a first portion of an object, said first portion specified based on a simulated cutting load distribution of said object; and generating NC data to machine said object after said first portion of said object was machined.

Yamazaki et al. US 6,266,572 discloses an apparatus for generating a numerical control command for an object according to a cut resistance value and cut torque value derived from a machining simulation. However, the numerical control commands are not generated for a "first portion" of the object that is specified based on this machining simulation. In other words, for example, Yamazaki et al. does not use the machining simulation data to machine a first portion of the object that requires a high cutting load. Rather, Yamazaki et al. uses the simulation data to ensure that cutting speed and torque can be controlled to be within predetermined limits. There is no teaching or suggestion that the simulation data is used to determined which portion of the object should be machined first. Furthermore, the simulated data of Yamazaki et al. does not

even appear to constitute a simulated cutting load "distribution", or a cutting load over an object's area, per Applicant's claims and Fig. 4.

Regarding apparatus claim 17, the limitation "said first portion specified based on a simulated cutting load distribution of said object" is an undeniable, fundamental physical feature of the apparatus that forms the basis for the allowance of this claim. The further physical manifestation of this feature in the apparatus is evidenced in dependent claims 18 and 19.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan A. Jarrett whose telephone number is (571) 272-3742. The examiner can normally be reached on 10:00-6:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

L-P.P

Ryan A. Jarrett Examiner Art Unit 2125

10/11/05 RAJ

> LEO PICARD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100